

**BAY AREA REGIONAL
WATER RECYCLING PROGRAM**

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Water Recycling Today

Currently, recycled water projects are planned or existing in over 25 Bay Area communities, with potential production capacity expected to reach 650,000 acre-feet by the year 2020.

**Master Plan Report
Administrative Draft**

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TABLE 6-2
Existing and Potential Recycled Water Supplies ⁽¹⁾

Map ID	Existing and Wastewater Treatment Plant	Existing Average Dry Weather Flow ⁽²⁾ (mgd)	YEAR 2010 Average Dry Weather Flow ⁽³⁾ (mgd)	YEAR 2040 Average Dry Weather Flow ⁽³⁾ (mgd)
ROD	Rodeo Sanitary District	0.6	0.7	0.7
SFI	San Francisco International Airport	1	1.1	1.2
SFO	San Francisco Oceanside	17	17	17
SFSE	San Francisco Southeast	65	69	72
SJSC	San Jose/Santa Clara WPCP	130	149	162
SL	San Leandro WPCP	5.5	7.4	8.7
SM	San Mateo	12	13	13
SBSA	South Bayside System Authority	19	20	21
SSF	South San Francisco	9	9.1	9.2
SUN	Sunnyvale	15	16	17
USD	Union Sanitary District ⁽⁴⁾	23	27	29
WCSD	West County Wastewater District	9.5	10.5	11.1
TOTAL (MGD) ⁽⁴⁾		530	600	650
TOTAL (1000 AF/yr, rounded) ⁽⁴⁾		580	670	730

⁽¹⁾ Supplies were projected based on a consistent method and may not always reflect agency supply projections.

⁽²⁾ Based on wastewater master plans and/or conversations with agency personnel.

⁽³⁾ Future flows estimated based on ABAG population projections and the demonstrated Bay Area regional average per capita wastewater generation rate of 100 gallons per capita per day.

⁽⁴⁾ The supply available was reduced as shown in Table 6-1.

Artesian Slough

The San Jose/Santa Clara Water Pollution Control Plant (SJ/SC WPCP) discharges to the South Bay through the Artesian Slough. The Slough is surrounded by areas of salt water and brackish water marshes that are habitat for two endangered species, the California clapper rail and the salt marsh harvest mouse. The SJ/SC WPCP is currently required to reduce its freshwater discharges to Artesian Slough due to concerns over conversion of the endangered species habitat to fresh water marshes. This restriction on effluent flow volume has led to implementation of the South Bay Water Recycling Program. However, regulatory agencies recognize that removing all of the flow may damage existing wetlands. No firm guidelines have been issued by regulatory agencies regarding a minimum flow required into Artesian Slough, although a volume of approximately 70 mgd has been mentioned informally.

Due to the uncertainty of whether continued discharge to Artesian Slough will be required, or, if so, the required volume of discharge, no

Depending on the final determination of minimum flow to Artesian Slough, 1 to 10 percent of regional supply could be used to sustain wetlands.

Future population data indicated an average growth rate for the study area of approximately 1 percent annually. Historic trends in many urbanizing areas indicate that population growth rates level over time. After review, a growth rate of 0.3 percent was used to project population increases from 2020 to 2040.

To project future populations served by each POTW, the population data was obtained by census tract for these areas projected to have significant growth (defined as increases of 10,000 people or greater). It was assumed that future populations in and near the existing service area for each facility would be served by that facility. This average generation rate (100 gallons per capita per day) was multiplied by the future population served by each facility to determine future flow increases. These projected increases were added to the 1995 baseline flow for each facility. Using this approach, the total potential supply projected for 2010 and 2040 is 610 and 660mgd, respectively.

The projected supply numbers based on this consistent, regional approach, and adjusted by the amounts in Table 6-1, are presented in Table 6-2.

TABLE 6-2
Existing and Potential Recycled Water Supplies ⁽¹⁾

Map ID	Existing and Wastewater Treatment Plant	Existing Average Dry Weather Flow ⁽²⁾ (mgd)	YEAR 2010 Average Dry Weather Flow ⁽³⁾ (mgd)	YEAR 2040 Average Dry Weather Flow ⁽³⁾ (mgd)
BRENT	Brentwood	1.4	2.5	3.3
BURL	Burlingame	3.5	3.5	3.5
CCCSD	Central Contra Costa Sanitary District	38	47	52
DC	Daly City	6.5	7.6	8.4
DDSD	Delta Diablo Sanitation District	12	17	21
DB	Discovery Bay	1.3	1.5	1.7
DSRSD	Dublin San Ramon Services District	9.5	15.4	19.3
EBMUD	East Bay Municipal Utility District	75	79	81
GIL	Gilroy WWTP	2.6	5.0	6.5
HMB	Half Moon Bay	1.5	2.8	3.6
HAY	Hayward	12	14	15
HER	Hercules	0.28	0.5	0.6
IRON	Ironhouse SD	2	5.9	8.5
LIV	Livermore Water Reclamation Plant	5.4	9.2	11.8
MILL	Millbrae	2.6	2.7	2.8
MVSD	Mountain View SD ⁽⁴⁾	.5	1.1	1.4
OLSD	Oro Loma Sanitary District	12	13	13
PAC	Pacifica ⁽⁴⁾	0	0	0
PA	Palo Alto Regional WQCP ⁽⁴⁾	23.8	25.8	26.8
PIN	Pinole	0.5	0.95	1.3
RICH	Richmond	7	7.7	8.2